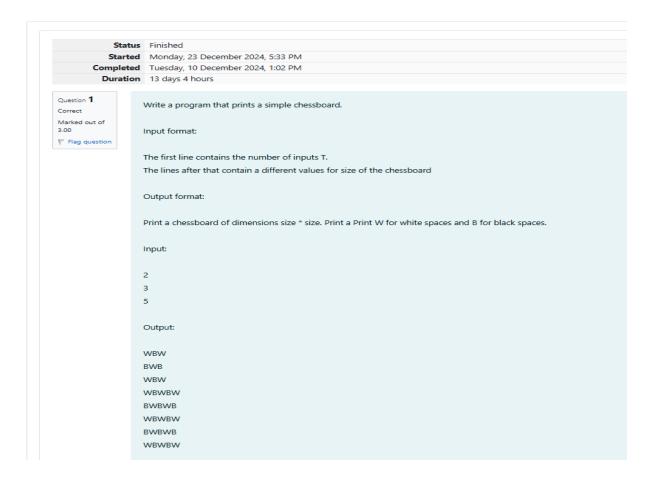
SAMYUKTHA S 240801287 WEEK 5





Question 2
Correct
Marked out of 5.00
Flag question

```
Let's print a chessboard!
Write a program that takes input:
The first line contains T, the number of test cases
Each test case contains an integer N and also the starting character of the chessboard
Output Format
Print the chessboard as per the given examples
Sample Input / Output
Input:
2
2 W
3 B
Output:
WB
BW
BWB
WBW
BWB
```

Question 3 Correct Marked out of 7.00 Flag question

Decode the logic and print the Pattern that corresponds to given input.

If N= 3

then pattern will be:

10203010011012

**4050809

****607

If N= 4, then pattern will be:

1020304017018019020

**50607014015016

****809012013

*****10011

Constraints

2 <= N <= 100

Input Format

First line contains T, the number of test cases

Each test case contains a single integer N

Output

First line print Case #i where i is the test case number

In the subsequent line, print the pattern

```
Answer: (penalty regime: 0 %)
```

```
9 in 10 fc 11 11 12 13 r 14 15 16 17 r 18 19 20 21 22 23 24 } 22 25 Feturn 0; }
                              }
for(int l=1;1<=N-i+1;1++){
    if(l==N-i+1)
    printf("%d",y);
    else {printf("%d0",y);y++;}</pre>
                               y-=(2*N-2*i);
printf("\n");
```

```
Input Expected
                                              Got
               Case #1
10203010011012
                                             Case #1
10203010011012
                                              **4050809
****607
               **4050809
****607
               Case #2
                                              Case #2
               1020304017018019020
                                              1020304017018019020
               **50607014015016
****809012013
                                              **50607014015016
****809012013
               ******10011
                                              ******10011
                                              Case #3
               Case #3
                102030405026027028029030 102030405026027028029030
                **6070809022023024025
                                              **6070809022023024025
                                              ****10011012019020021
               ****10011012019020021
                                             ******13014017018
*******15016
               ******13014017018
*******15016
Passed all tests! 🗸
```

Status Finished Started Monday, 23 December 2024, 5:33 PM Completed Tuesday, 10 December 2024, 1:19 PM **Duration** 13 days 4 hours Question 1 The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N. Correct Marked out of 3.00 Given a positive integer N, return true if and only if it is an Armstrong number. Flag question Example 1: Input: 153 Output: true Explanation: 153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3. Example 2: Input: 123 Output:

```
Answer: (penalty regime: 0 %)
        #include <stdio.h>
        temp=n;
while(temp!=0) {
                temp/=10;
dig++;
    8
   10
11
12
            temp=n;
            while(temp!=0) {
  13
14
15
               rem=temp%10;
sum+=pow(rem,dig);
temp/=10;
   16
17
            }
if(sum==n)
   18
19
            printf("true");
            else
   20
21 r
22 }
            printf("false");
        return 0;
```

```
Input Expected Got

153 true true 

123 false false 

Passed all tests! 

Input Expected Got

Passed all tests!
```

Question **2**Correct
Marked out of

5.00

Flag question

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1<=num<=99999999 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
 2 v int main() {
 3
      long long int num, sum, revno, tempno, tempsum;
       scanf("%lld",&num);
 4
 5 ,
      while(1) {
 6
         revno=0;
 7
         tempno=num;
 8 ,
        while(num) {
         revno=revno*10+(num%10);
num/=10;}
 9
10
       sum=tempno+revno;
tempsum=sum;
revno=0;
11
12
13
14 v
        while(sum) {
          revno=revno*10+(sum%10);
sum/=10;}
15
16
       if(tempsum==revno)
17
18
          break;
19
          num=tempsum;}
20
          printf("%11d",tempsum);
21
22
23
    return 0;
24 }
```

	Input	Expected	Got	
~	32	55	55	~
~	789	66066	66066	~

Passed all tests! 🗸

Question 3
Correct
Marked out of 7.00
F Flag question

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as output.

Sample Input 1:

3

Sample Output 1:

33

Explanation:

Here the lucky numbers are 3, 4, 33, 34,, and the 3rd lucky number is 33.

Sample Input 2:

34

Sample Output 2:

33344

```
Answer: (penalty regime: 0 %)
```

```
1 #include <stdio.h>
     int main() {
 2 ,
        int a,num=1,c=0;
scanf("%d",&a);
 3
 4
 5
         while(c<a){
 6
             int t=num;
 7
             int 1=1;
             while(t>0) {
8
                  int dig=t%10;
if(dig!=3 && dig!=4) {
9
10
11
                     1=0;
12
                      break;
13
                  t=t/10;}
14
                 if(1)
15
16
                  C++;
             num++;}
printf("%d\n",num-1);
17
18
19
             return 0;
20
21
22 }
```

	Input	Expected	Got	
~	34	33344	33344	~

Passed all tests! <